

# New reversible air-to-water heat pumps:

## The ideal heating solution even at temperatures as low as $-20^{\circ}\text{C}$ .

### The air is full of energy

Dimplex air-to-water heat pumps use free environmental energy outside air which is available in abundance year-round. Our appliances are highly efficient and will operate at temperatures as low as  $-20^{\circ}\text{C}$ . The installation cost of the air-to-water heat pumps are very low due to the fact that they are installed outdoors allowing them to capture the heat contained in the air directly at the source.

### Air-to-water heat pumps for outdoor installation

Dimplex heat pumps designed for outdoor installation are the intelligent heating solution for modern homes. When used in conjunction with a low-temperature underfloor heating system, you will be surprised at the low operating costs of your heat pump.

### Dynamic cooling

These reversible heat pumps can also provide cooling in summer when their operating cycle is reversed. The appliances extract heat from your home by means of fan convectors or underfloor cooling systems to reduce the temperature to a pleasant level.

### DHW as an added benefit

As an option, this new compact heat pump can also provide your home with hot water in accordance with the requirements of the system.



LA MR and TR reversible air-to-water heat pump for outdoor installation

### Easy installation

This new range of reversible air-to-water heat pumps can be installed in minimum time, since all hydraulic components required for heating and cooling are already incorporated: 1 circulating pump for heating and cooling, 8-litre expansion vessel and integrated safety devices as well as a three-capacity resistance heater (2,4 or 6 kW). A 100-litre buffer tank is also available for this model.

Ordering code	LA 6 MR	LA 8 MR	LA 10 MR	LA 12 TR	LA 14 TR	
<b>Operating temperature range</b>						
Heating water flow/return temperature	°C max. 60 / min. 18					
Cooling water flow temperature	°C +7 to +20					
Air (heating)	°C -20 to +35					
Air (cooling)	°C +15 to +45					
<b>Heating capacity / coefficient of performance</b>						
at A7/W35	kW/-	6,2 / 3,3	7,6 / 3,5	8,7 / 3,5	12,1 / 3,4	15,5 / 3,4
at A7/W45	kW/-	6,2 / 2,7	7,3 / 2,8	8,6 / 2,8	10,6 / 2,9	12,2 / 2,9
<b>Cooling capacity / coefficient of performance</b>						
at A35/W18	kW/-	7,9 / 3,3	9,4 / 3,4	11,1 / 3,4	13,8 / 3,2	16,9 / 3,3
at A35/W7	kW/-	6,2 / 2,7	7,1 / 2,8	8,3 / 2,8	10,3 / 2,6	13,4 / 2,7
Power consumption at A35 W18	kW	2,75	3,26	3,96	4,94	6,41
Refrigerant	inch	R407C	R407C	R407C	R407C	R407C
Heating water flow rate	m <sup>3</sup> /h	0,8	1,0	1,2	1,4	1,8
Dimensions (without connections)	W x H x D (cm)	86 x 127 x 67				
Weight (incl. packaging)	kg	159	165	170	185	196
Heating connections, outlet	inch	G 1" male thread				
Electrical supply / fuse protection	V / A	230/20	230/20	230/25	400/16	400/16

# New reversible compact brine-to-water heat pumps

## Heating with solar energy

Dimplex brine-to-water heat pumps are capable of heating your entire home. Approximately 75% of the energy is extracted from the environment, i.e. the solar energy stored in the ground.

## Dynamic cooling

In conjunction with existing geothermal collectors, these reversible heat pumps can also be used to cool your home in the summer using existing underfloor heating and cooling systems or fan convectors.

## DHW as an added benefit

As an option, this new compact heat pump can also provide your home with hot water in accordance with the requirements of the system.

## Easy installation

This new range of reversible brine-to-water heat pumps can be installed in minimum time, since all hydraulic components for the ground-source system as well as for the heating and cooling circuit are already incorporated: 2 circulating pumps for the heating system and the brine, two 8-litre expansion vessels as well as safety devices.



*SI MR and TR series heat pumps: Reversible brine-to-water heat pumps for indoor installation*

Ordering code	SI 8 MR	SI 10 MR	SI 12 TR	SI 14 TR	SI 16 TR	SI 20 TR	
<b>Operating temperature range</b>							
Heating °C	max. +60						
Cooling °C	+7 to +20						
Brine (heating) °C	-5 to +25						
Brine (cooling) °C	+5 to +25						
<b>Heating capacity /coefficient de performance</b>							
Outside temp. -5 °C and hot water flow temp. 55 °C kW/- Outside temp. 0 °C and hot water flow temp. 50 °C	7,5/2,0	9,8/2,1	9,8/2,1	12,2/2,3	14,1/2,4	18,7/2,5	
Outside temp. 20 °C and cold water flow temp. 18 °C	8,8/2,8	11,3/2,9	11,3/2,9	13,5/2,9	16,3/3,2	20,4/3,1	
Outside temp. 5 °C and hot water flow temp. 35 °C	9,3/4,0	11,6/4,1	11,6/4,1	13,7/4,0	16,4/4,0	20,0/4,2	
<b>Cooling capacity /coefficient of performance</b>							
Outside temp. 20 °C and cold water flow temp. 8 °C	9,9/4,6	11,4/4,6	11,4/4,6	14,1/5,0	17,3/4,9	21,5/4,9	
Outside temp. 20 °C and cold water flow temp. 18 °C	12,0/5,4	14,1/5,3	14,1/5,3	17,4/5,9	21,5/5,9	26,0/5,7	
Outside temp. 10 °C and cold water flow temp. 8 °C	9,9/5,6	11,6/5,7	11,6/5,7	14,7/6,4	18,0/6,4	21,9/5,9	
Outside temp. 10 °C and cold water flow temp. 18 °C	12,4/6,7	14,1/6,5	14,1/6,5	17,4/7,1	21,5/7,3	27,7/7,1	
Power consumption at outside temp. 0 °C/hot water flow temp. 35 °C	kW	2,3	2,8	2,8	3,41	4,1	4,8
Refrigerant	-/kg	R407C/1,25	R407C/1,6	R407C/1,6	R407C/2,1	R407C/2,5	R407C/3,2
Brine flow rate at internal pressure difference	m <sup>3</sup> /h//Pa	2,3/25000	3,0/24000	3,0/24000	3,5/17900	3,8/18400	3,5/13900
Heating water flow rate at internal pressure difference	m <sup>3</sup> /h//Pa	0,75/2300	1,0/4100	1,0/4100	1,3/4850	1,5/4000	1,6/3400
Dimensions (without connections)	W x H x D (mm)						640 x 1220 x 624

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